

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/686,157
Source: 1FW0
Date Processed by STIC: 3/10/05

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 03/10/2005

PATENT APPLICATION: US/10/686,157

TIME: 09:25:44

Input Set : A:\UCL034UScip ST25.txt

Output Set: N:\CRF4\03102005\J686157.raw

```

3 <110> APPLICANT: UNIVERSITE CATHOLIQUE DE LOUVAIN
4     UNIVERSITE DE MONS-HAINAUT
6 <120> TITLE OF INVENTION: Peroxisome-associated polypeptide, nucleotide sequence
encoding
7     said polypeptide and their uses in the diagnosis and/or treatment
8     of lung injuries and diseases, and of oxidative stress-related
9     disorders
11 <130> FILE REFERENCE: DECL30.001CP1
13 <140> CURRENT APPLICATION NUMBER: US 10/686,157
14 <141> CURRENT FILING DATE: 2003-10-15
16 <150> PRIOR APPLICATION NUMBER: US 6,759,194
17 <151> PRIOR FILING DATE: 2000-08-15
19 <150> PRIOR APPLICATION NUMBER: PCT/BE98/00124
20 <151> PRIOR FILING DATE: 1998-08-20
22 <150> PRIOR APPLICATION NUMBER: BE 1011331
23 <151> PRIOR FILING DATE: 1997-08-20
25 <160> NUMBER OF SEQ ID NOS: 21
27 <170> SOFTWARE: PatentIn version 3.3
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 805
31 <212> TYPE: DNA
32 <213> ORGANISM: Homo sapiens
34 <400> SEQUENCE: 1
35 gccaggaggc ggagtggaag tggccgtggg gcgggtatgg gactagctgg cgtgtgcgcc      60
37 ctgagacgct cagcgggcta tatactcgtc ggtggggccg gcggtcagtc tgcggcagcg      120
39 gcagcaagac ggtgcagtga aggagagtgg gcgtctggcg ggggccgcag tttcagcaga      180
41 gccgctgcag ccatggcccc aatcaagggtg ggagatgccca tcccagcagt ggaggtgttt      240
43 gaagggggagc caggggaacaa ggtgaacctg gcagagctgt tcaagggcaa gaaggggtgtg      300
45 ctgtttggag ttctctggggc cttcacccct ggatgttcca agacacacct gccagggttt      360
47 gtggagcagg ctgaggctct gaaggccaag ggagtccagg tgggtggcctg tctgagtgtt      420
49 aatgatgcct ttgtgactgg cgagtggggc cgagcccaca aggcggaagg caaggttcgg      480
51 ctcttggtctg atcccactgg ggcctttggg aaggagacag acttattact agatgattcg      540
53 ctggtgtcca tctttgggaa tcgacgtctc aagaggttct ccatggtggt acaggatggc      600
55 atagtgaagg ccctgaatgt ggaaccagat ggcacaggcc tcacctgcag cctggcaccc      660
57 aatatcatct cacagctctg aggccctggg ccagattact tctccacccc ctccctatct      720
59 cacctgcccc gccctgtgct ggggccctgc aattggaatg ttggccagat ttctgcaata      780
61 aacacttggtg gtttgccgaa aaaaaa                                     805
64 <210> SEQ ID NO: 2
65 <211> LENGTH: 162
66 <212> TYPE: PRT
67 <213> ORGANISM: Homo sapiens
69 <400> SEQUENCE: 2
71 Met Ala Pro Ile Lys Val Gly Asp Ala Ile Pro Ala Val Glu Val Phe
72 1           5           10           15

```

RAW SEQUENCE LISTING

DATE: 03/10/2005

PATENT APPLICATION: US/10/686,157

TIME: 09:25:44

Input Set : A:\UCL034UScip ST25.txt

Output Set: N:\CRF4\03102005\J686157.raw

```

75 Glu Gly Glu Pro Gly Asn Lys Val Asn Leu Ala Glu Leu Phe Lys Gly
76          20          25          30
79 Lys Lys Gly Val Leu Phe Gly Val Pro Gly Ala Phe Thr Pro Gly Cys
80          35          40          45
83 Ser Lys Thr His Leu Pro Gly Phe Val Glu Gln Ala Glu Ala Leu Lys
84          50          55          60
87 Ala Lys Gly Val Gln Val Val Ala Cys Leu Ser Val Asn Asp Ala Phe
88 65          70          75          80
91 Val Thr Gly Glu Trp Gly Arg Ala His Lys Ala Glu Gly Lys Val Arg
92          85          90          95
95 Leu Leu Ala Asp Pro Thr Gly Ala Phe Gly Lys Glu Thr Asp Leu Leu
96          100         105         110
99 Leu Asp Asp Ser Leu Val Ser Ile Phe Gly Asn Arg Arg Leu Lys Arg
100         115         120         125
103 Phe Ser Met Val Val Gln Asp Gly Ile Val Lys Ala Leu Asn Val Glu
104         130         135         140
107 Pro Asp Gly Thr Gly Leu Thr Cys Ser Leu Ala Pro Asn Ile Ile Ser
108 145         150         155         160
111 Gln Leu

```

115 <210> SEQ ID NO: 3

116 <211> LENGTH: 780

117 <212> TYPE: DNA

118 <213> ORGANISM: Rattus rattus

120 <400> SEQUENCE: 3

```

121 tgcgtcctag gcagcatagc cggatcgggtg ctccgtgcat cggctacttg gacgtgcgtg      60
123 gcaggcagag caggccggaa aggagcaggt tgggagtgtg gtggggcccg cagcttcagc      120
125 agtgccgcgg tgactatggc cccgatcaag gtgggagaca ccattccctc agtggaggta      180
127 tttgragggg aacctggaaa gaaggtgaac ttggcagagc tgttcaagga caagaaagggt      240
129 gttttgtttg gagtccctgg ggcatttaca cctggctgtt ccaagacca tctgcctggg      300
131 tttgtggagc aagccggagc tcygaaggcc aaggagcac aagtgggtggc ctgtctgagt      360
133 gttaatgatg ycttcgtgac tgcagagtgg ggtcgagccc accaggcaga aggcaagggt      420
135 cagctcctgg ctgaccccac tggagctttt ggaaaggaga cagatttact actagatgat      480
137 tcttttgtgt ctctctttgg gaatcgtcgg ctaaaaagggt tctccatggg gatagacaag      540
139 ggcgtagtaa aggcaactgaa cgtggagccg gatggcacag gcctcacctg cagcctggcc      600
141 cccaacatcc tctcacaact ctgaggccct gaccagaatg tcctctgact ctcccatctc      660
143 ctccacccag ctctgggcca aaggcccagt acctccttac ctgagggcca ctggaatgga      720
145 accttgacaa tatttctgca ataaacagtt taatttgtga aaaaaaaaaa aaaaaaaaaa      780

```

148 <210> SEQ ID NO: 4

149 <211> LENGTH: 162

150 <212> TYPE: PRT

151 <213> ORGANISM: Rattus rattus

154 <220> FEATURE:

155 <221> NAME/KEY: MISC_FEATURE

156 <222> LOCATION: (17)..(17) ✓

157 <223> OTHER INFORMATION: X = E or G

159 <220> FEATURE:

160 <221> NAME/KEY: MISC_FEATURE

161 <222> LOCATION: (63)..(63) ✓

162 <223> OTHER INFORMATION: X = L or P

RAW SEQUENCE LISTING

DATE: 03/10/2005

PATENT APPLICATION: US/10/686,157

TIME: 09:25:44

Input Set : A:\UCL034UScip ST25.txt

Output Set: N:\CRF4\03102005\J686157.raw

```

164 <220> FEATURE:
165 <221> NAME/KEY: MISC_FEATURE
166 <222> LOCATION: (79)..(79)
167 <223> OTHER INFORMATION: X = L or P
169 <400> SEQUENCE: 4
171 Met Ala Pro Ile Lys Val Gly Asp Thr Ile Pro Ser Val Glu Val Phe
172 1 5 10 15
W--> 175 Xaa Gly Glu Pro Gly Lys Lys Val Asn Leu Ala Glu Leu Phe Lys Asp
176 20 25 30
179 Lys Lys Gly Val Leu Phe Gly Val Pro Gly Ala Phe Thr Pro Gly Cys
180 35 40 45
183 Ser Lys Thr His Leu Pro Gly Phe Val Glu Gln Ala Gly Ala Xaa Lys
184 50 55 60
187 Ala Lys Gly Ala Gln Val Val Ala Cys Leu Ser Val Asn Asp Xaa Phe
188 65 70 75 80
191 Val Thr Ala Glu Trp Gly Arg Ala His Gln Ala Glu Gly Lys Val Gln
192 85 90 95
195 Leu Leu Ala Asp Pro Thr Gly Ala Phe Gly Lys Glu Thr Asp Leu Leu
196 100 105 110
199 Leu Asp Asp Ser Leu Val Ser Leu Phe Gly Asn Arg Arg Leu Lys Arg
200 115 120 125
203 Phe Ser Met Val Ile Asp Lys Gly Val Val Lys Ala Leu Asn Val Glu
204 130 135 140
207 Pro Asp Gly Thr Gly Leu Thr Cys Ser Leu Ala Pro Asn Ile Leu Ser
208 145 150 155 160
211 Gln Leu
215 <210> SEQ ID NO: 5
216 <211> LENGTH: 675
217 <212> TYPE: DNA
218 <213> ORGANISM: Mus musculus
220 <400> SEQUENCE: 5
221 tgctccgtgc atcgacgtgc ttggcaggca gagcaggccg gaaagaagca ggttgggag 60
223 gtggcggagc ccgcagcttc agcagctccg cggtgaccat ggccccgac aagggtgggag 120
225 atgccattcc ctcaagtggag gtatttgaag gggaaccggg aaagaagggtg aacttggcag 180
227 agctgttcaa gggcaagaaa ggtgttttgt ttggagtccc tggggcattt acacctggct 240
229 gttctaagac ccacctgcct gggtttgtgg agcaagctgg agctctgaag gctaaggagg 300
231 cgcagggtgtt ggcctgtctg agcgtaaatg acgtctttgt gattgaagag tggggtcgag 360
233 cccaccaggc agaaggcaag gttcggctcc tggctgaccc cactggagcc tttgggaagg 420
235 cgacagactt attattggat gattctttgg tgtctctctt tgggaatcgt cggctgaaaa 480
237 ggttctccat ggtgatagac aacggcatag tgaaggcact gaacgtggag ccagatggca 540
239 caggcctcac ctgcagcctg gcccccaaca tcctctccca actctgaggc cctggccaga 600
241 tgtcctctga ctctcccatc tctcccaccc ggctctaggc caaaagggtc ggtacctcct 660
243 tactgggagc cacgt 675
246 <210> SEQ ID NO: 6
247 <211> LENGTH: 162
248 <212> TYPE: PRT
249 <213> ORGANISM: Mus musculus
251 <400> SEQUENCE: 6
253 Met Ala Pro Ile Lys Val Gly Asp Ala Ile Pro Ser Val Glu Val Phe

```

RAW SEQUENCE LISTING

DATE: 03/10/2005

PATENT APPLICATION: US/10/686,157

TIME: 09:25:44

Input Set : A:\UCL034UScip ST25.txt

Output Set: N:\CRF4\03102005\J686157.raw

```

254 1          5          10          15
257 Glu Gly Glu Pro Gly Lys Lys Val Asn Leu Ala Glu Leu Phe Lys Gly
258          20          25          30
261 Lys Lys Gly Val Leu Phe Gly Val Pro Gly Ala Phe Thr Pro Gly Cys
262          35          40          45
265 Ser Lys Thr His Leu Pro Gly Phe Val Glu Gln Ala Gly Ala Leu Lys
266          50          55          60
269 Ala Lys Gly Ala Gln Val Val Ala Cys Leu Ser Val Asn Asp Val Phe
270 65          70          75          80
273 Val Ile Glu Glu Trp Gly Arg Ala His Gln Ala Glu Gly Lys Val Arg
274          85          90          95
277 Leu Leu Ala Asp Pro Thr Gly Ala Phe Gly Lys Ala Thr Asp Leu Leu
278          100          105          110
281 Leu Asp Asp Ser Leu Val Ser Leu Phe Gly Asn Arg Arg Leu Lys Arg
282          115          120          125
285 Phe Ser Met Val Ile Asp Asn Gly Ile Val Lys Ala Leu Asn Val Glu
286          130          135          140
289 Pro Asp Gly Thr Gly Leu Thr Cys Ser Leu Ala Pro Asn Ile Leu Ser
290 145          150          155          160
293 Gln Leu
297 <210> SEQ ID NO: 7
298 <211> LENGTH: 469
299 <212> TYPE: DNA
300 <213> ORGANISM: Homo sapiens
302 <400> SEQUENCE: 7
303 gggatatggga ctagctggcg tgtgcgccct gagacgctca gcgggctata tactcgtcgg 60
305 tggggccggc ggtcagtctg cggcagcggc agcaagacgg tgcagtgaag gagagtgggc 120
307 gtctggcggg gtccgcagtt tcagcagagc cgctgcagcc atggcccca tcaaggttcg 180
309 gctcctggct gatcccaactg gggccttttg gaaggagaca gacttattac tagatgattc 240
311 gctgggtgtcc atctttggga atcgacgtct caagagggtt tccatggtgg tacaggatgg 300
313 catagtgaag gccctgaatg tgggaaccaga tggcacaggc ctcacctgca gcctggcacc 360
315 caatatcatc tcacagctct gaggccttgg gccagattac ttcctccacc cctccctatc 420
317 tcacctgccc agccgtgtgc tggggccctg caattggaat gttggccag 469
320 <210> SEQ ID NO: 8
321 <211> LENGTH: 601
322 <212> TYPE: DNA
323 <213> ORGANISM: Homo sapiens
325 <400> SEQUENCE: 8
326 gggatatggga ctagctggcg tgtgcgccct gagacgctca gcgggctata tactcgtcgg 60
328 tggggccggc ggtcagtctg cggcagcggc agcaagacgg tgcagtgaag gagagtgggc 120
330 gtctggcggg gtccgcagtt tcagcagagc cgctgcagcc atggcccca tcaagacaca 180
332 cctgccaggg tttgtggagc aggtgagggc tctgaaggcc aaggaggatc aggtggtggc 240
334 ctgtctgagt gttaatgatg cctttgtgac tggcgagtgg ggccgagccc acaaggcgga 300
336 aggcaagggt cggctcctgg ctgatcccac tggggccttt gggaaggaga cagacttatt 360
338 actagatgat tcgctggtgt ccatcttttg gaatcgacgt ctcaagaggt tctccatggt 420
340 ggtacaggat ggcatagtga aggcctgaa tgtggaacca gatggcacag gcctcacctg 480
342 cagcctggca cccaatatca tctcacagct ctgaggccct gggccagatt acttcctcca 540
344 cccctcccta tctcacctgc ccagccctgt gctggggccc tgcaattgga atgttgggcca 600
346 g 601

```

RAW SEQUENCE LISTING

DATE: 03/10/2005

PATENT APPLICATION: US/10/686,157

TIME: 09:25:44

Input Set : A:\UCL034UScip ST25.txt

Output Set: N:\CRF4\03102005\J686157.raw

```

349 <210> SEQ ID NO: 9
350 <211> LENGTH: 604
351 <212> TYPE: DNA
352 <213> ORGANISM: Homo sapiens
354 <400> SEQUENCE: 9
355 gggatatggga ctagctggcg tgtgcgcctt gagacgctca gcgggctata tactcgctcgg      60
357 tggggccggc ggtcagtcct cggcagcggc agcaagacgg tgcagtgaag gagagtgggc      120
359 gtctggcggg gtccgcagtt tcagcagagc cgctgcagcc atggcccca tcaagggtggg      180
361 agatgccatc ccagcagtggt aggtgtttga aggggagcca ggggaacaagg tgaacctggc      240
363 agagctgttc aagggaaga aggtgtgct gtttggagtt cctggggcct tccccctgg      300
365 atgttccaag gttcggctcc tggctgatcc cactggggcc tttgggaagg agacagactt      360
367 attactagat gattcgtcgt tgtccatctt tgggaatcga cgtctcaaga ggttctccat      420
369 ggtggtacag gatggcatag tgaaggccct gaatgtggaa ccagatggca caggcctcac      480
371 ctgcagcctg gcacccaata tcctctcaca gctctgaggc cctgggccag attacttctt      540
373 ccaccctcc ctatctcacc tgcccagccc tgtgctgggg ccttgcaatt ggaatgttgg      600
375 ccag                                         604
378 <210> SEQ ID NO: 10
379 <211> LENGTH: 2710
380 <212> TYPE: DNA
381 <213> ORGANISM: Homo sapiens
383 <400> SEQUENCE: 10
384 tctgtccctt agcgcctccg cgggggctta ccccatccca ctccatgacc tccccctccc      60
386 ccatggcgaa tccccacctt tctgtctttc actcacttcc tggaaaccgtc cccagggcct      120
388 tggaccttcc cccttctcct cccaaacctt gtgagacccc attccctttc tacttcatcc      180
390 tgctctcaac ttttgggctc ctccagaggcc ctccaccttg actctctctc cctacccact      240
392 ctggtcccat gaagccctca agtactctgg ggatggatcc ttcccccttc aaaagattcc      300
394 ttcttttgtt ctacacctcc tgggtgtagg ggctggaca cctccccca acgttccacc      360
396 tgccgtgcc ctctctcttc ctctctctga ggggtggacc ctccagacctg gccagatcc      420
398 tctccctcca tgtgtcagg gactctctc ccccccaaa tacagccctc tagccctgt      480
400 ccattttatt ccactcttt cctgtaacct agacagcatg ttatgcaacc ctttgcgaca      540
402 catggggaaa ccttccctcc ctctctctgt tgtcaccaat ggcccttaa gaggagcagg      600
404 gccaccttga aacttggagg atatggggtg acccagtggt agcgggcagg gagggccctt      660
406 ggaaactgac agggctggag tatcctgctg ggtttcagcc cgggttctct caggcacagc      720
408 tgccaggctc tctgttcacc ttctgcctc tggtttgccc cggctccctc accccctta      780
410 ccctggagtc ctctcttcta ggtgggagat gccatcccag cagtggaggt gtttgaaggg      840
412 gagccaggga acaagggtgaa cctggcagag ctgttcaagg gcaagaaggg tgtgctgttt      900
414 ggagttcctg gggccttcac ccctggatgt tccaagggtg ggcccttccc cttctgaaga      960
416 tcaggacctg gggatctttt gtgttgctct taagtctctc acatagtcct gataggactc      1020
418 ctaaaaagca ttccagtgcc atcacaaaac aagtagagct gggtagagct gggcgcggtg      1080
420 gctcacgcct gtaatcccag cactttggga ggccaaggcg ggtggatcac gaggtcagga      1140
422 gtccaaaacc agcctggcca agatggtgaa accctgtctc tactaaaaat gcaaaaaaat      1200
424 cagccggata tgggtggcggg cgctgtaat cccagggtatt ggggaggctg aggcagagaa      1260
426 ttgcttgaac ccaggaggcg taggttgtag tgagtggaga tcgtgcctct gcagtccagc      1320
428 ctgggtgaaa gaggagagct ccgtctcaaa atgaaaaaaa aaaaagaaaa caagtagaga      1380
430 ctgcaaaaag ggaacagtac cggaatgtt ggagaaaaac atactacaat taaatccaac      1440
432 acccctgttg gtctgtctaa atgacaggca ctgtggaagg tgcttgggac tcagataaat      1500
434 aagacaaaga tctgcccatt gaaagttcac gtctggacca taaggcatta ggtttcattc      1560
436 tgagcttctt agtggccaag gcaaaaagga aatagaatgg tttagacagc tctcattgtc      1620
438 tgatcaaagg tgttgaggca gagcactgag gagggcctgg agataaaggg tgggctgggg      1680

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/686,157

DATE: 03/10/2005
TIME: 09:25:45

Input Set : A:\UCL034UScip ST25.txt
Output Set: N:\CRF4\03102005\J686157.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; Xaa Pos. 17, 63, 79

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:11

VERIFICATION SUMMARY

DATE: 03/10/2005

PATENT APPLICATION: US/10/686,157

TIME: 09:25:45

Input Set : A:\UCL034UScip ST25.txt

Output Set: N:\CRF4\03102005\J686157.raw

L:175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16

M:341 Repeated in SeqNo=4